

Certificate of Analysis

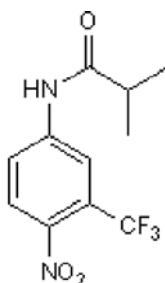
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Product Name: Flutamide
CAS Number: 13311-84-7
IUPAC Name: 2-Methyl-N-(4-nitro-3-[trifluoromethyl]phenyl)propanamide

Catalog No.: 4094 **Batch No.:** 3
EC Number: 236-341-9

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₁H₁₁F₃N₂O₃.
Batch Molecular Weight: 276.21
Physical Appearance: Pale yellow solid
Solubility: DMSO to 100 mM
 ethanol to 100 mM
Storage: Store at RT
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.9% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	47.83	4.01	10.14
Found	47.66	3.86	9.98

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

bio-techne.com
 info@bio-techne.com
 techsupport@bio-techne.com

North America
 Tel: (800) 343 7475

China
 info.cn@bio-techne.com
 Tel: +86 (21) 52380373

Europe Middle East Africa
 Tel: +44 (0)1235 529449

Rest of World
www.tocris.com/distributors
 Tel: +1 612 379 2956

Product Information

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Catalog No.: 4094

Batch No.: 3

CAS Number: 13311-84-7

EC Number: 236-341-9

IUPAC Name: 2-Methyl-N-(4-nitro-3-[trifluoromethyl]phenyl)propanamide

Description:

Flutamide is a non-steroidal antiandrogen; competitive antagonist of the androgen receptor. Blocks the biological activity of testosterone in vivo.

Physical and Chemical Properties:

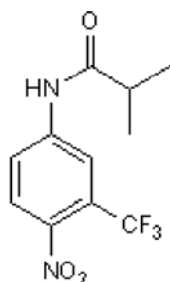
Batch Molecular Formula: C₁₁H₁₁F₃N₂O₃.

Batch Molecular Weight: 276.21

Physical Appearance: Pale yellow solid

Minimum Purity: ≥98%

Batch Molecular Structure:



Storage: Store at RT

Solubility & Usage Info:

DMSO to 100 mM

ethanol to 100 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Foster et al (2011) Drug safety is a barrier to the discovery and development of new androgen receptor antagonists. *Prostate* **71** 480. PMID: 20878947.

Butcher et al (2007) Induction of human arylamine N-acetyltransferase type I by androgens in human prostate cancer cells. *Cancer Res.* **67** 85. PMID: 17210686.

Sufrin and Coffey (1976) Flutamide. Mechanism of action of a new nonsteroidal antiandrogen. *Invest.Urol.* **13** 429. PMID: 1270239.

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North America

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China

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